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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,406	12/13/2001	Charles E. Wickersham JR.	TSO 190 P2	1167
33805	7590 11/21/2003		EXAMINER	
	, HESSLER & VAND SIDE WOODS BOULE	ANDREWS, MELVYN J		
SUITE 200 CLEVELAND, OH 44131			ART UNIT	PAPER NUMBER
			1742	
		DATE MAILED: 11/21/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)						
		10/018	3,406	WICKERSHAM ET AL.						
	Office Action Summary	Exami	n r	Art Unit	-					
		Melvyn	J. Andrews	1742						
	Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE I - External after - If the - If NO - Failur - Any I	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUI nsions of time may be available under the provisio SIX (6) MONTHS from the mailing date of this corperiod for reply specified above is less than thirty period for reply is specified above, the maximum re to reply within the set or extended period for reply received by the Office later than three monthed patent term adjustment. See 37 CFR 1.704(b).	NICATION.  ns of 37 CFR 1.136(a). In no nmunication.  (30) days, a reply within the statutory period will apply an oly will, by statute, cause the	event, however, may a reply be timestatutory minimum of thirty (30) days d will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).						
1)⊠	Responsive to communication(s) f	iled on <u>02 October 2</u>	<u>003</u> .							
2a) <u></u> □	This action is FINAL.	2b)⊠ This action is	non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
5)□ 6)⊠ 7)□	Claim(s) 16 and 17 is/are pending 4a) Of the above claim(s) is. Claim(s) is/are allowed. Claim(s) 16 and 17 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to rest	/are withdrawn from	·		•					
Applicati	on Papers									
10)	The specification is objected to by the drawing(s) filed on is/ar Applicant may not request that any objected Replacement drawing sheet(s) including the path or declaration is objected.	e: a) accepted or jection to the drawing(sing the correction is req	s) be held in abeyance. See uired if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 Cl	` '					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. §§ 119 and 120										
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.  a) The translation of the foreign language provisional application has been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.										
Attachment	t(s) e of References Cited (PTO-892)		4) 🗀 1-1	(DTO 442) Danie - N. (	->					
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review nation Disclosure Statement(s) (PTO-1449)		4) Interview Summary 5) Notice of Informal P 6) Other:							



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1.

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pavate et al (US 6,001,227). Pavate et al disclose a target having essentially no

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dielectric inclusions such as metal oxides (Al<sub>2</sub>O<sub>3</sub>), nitride precipitates, carbide

precipitates, of sizes larger than about 1 micron in concentrations greater than 5,000

such inclusions per gram of target material (col.12, lines 49 to 62) but does not

explicitly disclose a target material being substantially free of inclusions of the size of

"800µm and greater" or "400µm or greater" but the size of '227 inclusions being not

"larger than about 1 micron" overlaps the claimed range therefore it would have been

obvious to one of ordinary skill in the art at the time the invention was made to optimize

the size range of inclusions the motivation being to avoid localized melting of the

target which may splatter onto the wafer.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Melvyn J. Andrews whose telephone number is 703-

308-3739. The examiner can normally be reached on 8:00A.M. to 4:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy V King can be reached on 703-308-1146. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0651.

PRIMARY EXAMINER

neloge andrews

mia

November 20, 2003

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